

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A computer-based method of data replication of data in a programmable computer system ~~having an ISAM database and a transaction log file; the ISAM database having fields of tables and the transaction log file maintaining all files transactions of the ISAM database;~~ comprising the steps of:

polling ~~[[the]]~~ a transaction log file of a non-relational database of a proprietary system at a time interval for file transactions of ~~at least one selected ISAM database fields of tables the non-relational database~~ by at least one data replication server not running the non-relational database;

responsive to detecting file transactions of the non-relational database, reading the polled file transactions of the at least one selected ISAM database fields of tables by the at least one data replication server and determining if the file transactions indicate a change in the non-relational database; and

if the file transactions indicate a change in the non-relational database, sending the polled file transactions of the at least one selected ISAM database fields of tables from the at least one data replication server to at least one relational database; whereby the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time.

2. (Currently Amended) The computer-based method of claim 1, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables~~ sent from the at least one data replication server to the at least one relational database ~~[[is]]~~ are sent via respective relational database connections utilizing a relational database access protocol.

3. (Currently Amended) The computer-based method of claim 1, wherein ~~the polled file transactions of the at least one selected ISAM database fields of tables sent from the at least one data replication server to at least one relational database is sent via respective relational database connections; the at least one relational database being a relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing SQL NET protocol.~~

4. (Currently Amended) The computer-based method of claim 1, wherein ~~the polled file transactions of the at least one selected ISAM database fields of tables sent from the at least one data replication server to at least one relational database is sent via respective relational database connections; the at least one relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing an SQL NET protocol~~ the reading step comprises:

retrieving a configure file indicating from which table of the non-relational database is data to be replicated and to which of the at least one relational database is data to be replicated;

initializing a configure variable; and

connecting to the at least one relational database.

5. (Currently Amended) The computer-based method of claim ~~[[1]]~~ 4, wherein ~~the system having an ISAM database and a transaction log file is a PROMIS™ system~~ reading step further comprises:

retrieving a last applied transaction log sequence number from a last update file;

opening the transaction log file; and

locating a last applied record based on the last applied transaction log sequence number.

6. (Currently Amended) The computer-based method of claim ~~[[1]]~~ 5, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools~~ determining step comprises:

retrieving a next transaction record;

determining if a record type of the next transaction record is one of a delete, put, and update; and

determining from the configure file if the next transaction record is to be at least one of deleted, put, and updated in the at least one relational database.

7. (Currently Amended) The computer-based method of claim 1, wherein ~~the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools; the SQL query tools being selected from the group consisting of Oracle™ SQL/Plus and Microsoft Visual Basic/Access™~~ more than one of the at least one data replication server update one of the at least one relational database at a same time.

8. (Currently Amended) ~~A computer-based method of data replication of data in a programmable computer system having an ISAM database and a transaction log file; the ISAM database having fields of tables and the transaction log file maintaining all files transactions of the ISAM database; comprising the steps of:~~

~~polling the transaction log file for file transactions of at least one selected ISAM database fields of tables by at least one data replication server;~~

~~reading the polled file transactions of the at least one selected ISAM database fields of tables by the at least one data replication server; and~~

~~sending the polled file transactions of the at least one selected ISAM database fields of tables from the at least one data replication server to the at least one relational database; wherein the polled file transactions of the at least one selected ISAM database fields of tables sent from the at least one data replication server to at least one relational database is sent via respective relational database connections; whereby the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time~~ The computer-based method of claim 1, wherein the at least one relational database is accessible using an end user query tool.

9. (Currently Amended) The computer-based method of claim [[8]] 1, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables sent from the at least one data replication server to at least one relational database is sent via respective relational database connections; the at least one relational database being a relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing SQL NET protocol~~ at least one relational database generates at least one real time report.

10. (Currently Amended) The computer-based method of claim [[8]] 1, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables sent from the at least one data replication server to at least one relational database is sent via respective relational database connections; the at least one relational database selected from the group consisting of:~~

~~an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing an SQL NET protocol~~ reading step is performed using at least one data extraction function of the proprietary system.

11. (Currently Amended) The computer-based method of claim [[8]] 1, ~~wherein the system having an ISAM database and a transaction log file is a PROMIST™ system~~ further comprises:

sending a real time equipment status from the at least one data replication server to the at least one relational database.

12. (Currently Amended) The computer-based method of claim [[8]] 1, ~~wherein the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools~~ change in the non-relational database comprises a change in a field of a table of the non-relational database.

13. (Currently Amended) The computer-based method of claim [[8]] 6, ~~wherein the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools; the SQL query tools being selected from the group consisting of Oracle™ SQL/Plus and Microsoft Visual Basic/Aceess™~~ determining step further comprises writing the transaction log sequence number to the last update file.

14. (Currently Amended) A data processing computer-based system for data replication ~~of data in a sub-system having an ISAM database and a transaction log file; the ISAM database~~

~~having fields of tables and the transaction log file maintaining all files transactions of the ISAM database; the ISAM database~~ data processing computer-based system comprising:

polling means for polling ~~[[the]]~~ a transaction log file of a non-relational database of a proprietary system at a time interval for file transactions of ~~at least one selected ISAM database fields of tables~~ the non-relational database by at least one data replication server not running the non-relational database;

responsive to detecting file transactions of the non-relational database, reading means for reading the ~~polled~~ file transactions of ~~the at least one selected ISAM database fields of tables~~ by the at least one data replication server and determining means for determining if the file transactions indicate a change in the non-relational database; and

if the file transactions indicate a change in the non-relational database, sending means for sending the ~~polled~~ file transactions of ~~the at least one selected ISAM database fields of tables~~ from the at least one data replication server to at least one relational database through at least one respective communication link; ~~whereby the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time.~~

15. (Currently Amended) The computer-based system of claim 14, wherein ~~two or more the at least one~~ data replication ~~servers~~ server poll the transaction log file by ~~two or more~~ at least one respective polling means; the ~~polled~~ file transactions of the ~~at least one selected ISAM database fields of tables is~~ non-relational database are sent from the ~~two or more~~ at least one data replication ~~servers~~ server to the at least one relational database via respective relational database communication connections utilizing a relational database access protocol.

16. (Currently Amended) The computer-based system of claim 14, wherein the at least one relational database being a relational database selected from the group consisting of: an

Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing SQL NET protocol.

17. (Currently Amended) The computer-based system of claim 14, wherein the ~~at least one relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and the respective relational database connections utilizing an SQL NET protocol~~ reading means comprises:

retrieving means for retrieving a configure file indicating from which table of the non-relational database data is to be replicated and to which of the at least one relational database data is to be replicated;

initializing means for initializing a configure variable; and

connecting means for connecting to the at least one relational database.

18. (Currently Amended) The computer-based system of claim ~~[[14]]~~ 17, wherein the ~~sub-system having an ISAM database and a transaction log is a PROMIST™ sub-system~~ reading means further comprises:

retrieving means for retrieving a last applied transaction log sequence number from a last update file;

opening means for opening the transaction log file; and

locating means for locating a last applied record based on the last applied transaction log sequence number.

19. (Currently Amended) The computer-based system of claim ~~[[14]]~~ 18, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools~~ determining means comprises:

retrieving means for retrieving a next transaction record;

determining means for determining if a record type of the next transaction record is one of a delete, put, and update; and

determining means for determining from the configure file if the next transaction record is to be at least one of deleted, put, and updated in the at least one relational database.

20. (Currently Amended) The computer-based system of claim 14, wherein ~~the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools; the SQL query tools being selected from the group consisting of Oracle™ SQL/Plus and Microsoft Visual Basic/Access™~~ more than one of the at least one data replication server update one of the at least one relational database at a same time.

21. (Currently Amended) ~~A data processing computer-based system for data replication of data in a sub-system having an ISAM database and a transaction log file; the ISAM database having fields of tables and the transaction log file maintaining all files transactions of the ISAM database; the ISAM database comprising:~~

~~polling means for polling the transaction log file for file transactions of at least one selected ISAM database fields of tables by at least one data replication server;~~

~~reading means for reading the polled file transactions of the at least one selected ISAM database fields of tables by the at least one data replication server; and~~

~~sending means for sending the polled file transactions of the at least one selected ISAM database fields of tables from the at least one data replication server to at least one relational database through at least one respective communication link; the at least one respective communication link utilizing SQL NET protocol;~~

~~whereby the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time~~ The data processing computer-based system of claim 14, wherein the at least one relational database is accessible using an end user query tool.

22. (Currently Amended) The computer-based system of claim [[21]] 14, wherein ~~two or more data replication servers poll the transaction log file by two or more respective polling means; the polled file transactions of the at least one selected ISAM database fields of tables is are sent from the two or more data replication servers to at least one relational database via respective relational database communication connections~~ the at least one relational database generates at least one real time report.

23. (Currently Amended) The computer-based system of claim [[21]] 14, wherein the ~~at least one relational database being a relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database; and a Manufacture Execution System (MES) relational database~~ reading means is performed using at least one data extraction function of the proprietary system.

24. (Currently Amended) The computer-based system of claim [[21]] 14, wherein the ~~at least one relational database selected from the group consisting of: an Engineer Data Analysis (EDA) relational database, and a Manufacture Execution System (MES) relational database; and~~

~~the respective relational database connections utilizing an SQL-NET protocol~~ change in the non-relational database comprises a change in a field of a table of the non-relational database.

25. (Currently Amended) The computer-based system of claim [[21]] 19, wherein the ~~sub-system having an ISAM database and a transaction log file is a PROMIS™ sub-system~~ determining means further comprises writing means for writing the transaction log sequence number to the last update file.

26. (Currently Amended) The computer-based system of claim [[21]] 14, ~~wherein the polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools~~ further comprises:

sending means for sending a real time equipment status from the at least one data replication server to the at least one relational database.

27. (Currently Amended) The computer-based system of claim [[21]] 14, wherein the ~~polled file transactions of the at least one selected ISAM database fields of tables sent to the at least one relational database is accessible in real time by SQL query tools; the SQL query tools being selected from the group consisting of Oracle™ SQL/Plus and Microsoft Visual Basic/Aceess™~~ more than one of the at least one data replication server update more than one of the at least one relational database at a same time.